

Recovery Plan Action Status

Plan Name: Draft Recovery Plan for Behren's Silverspot Butterfly (*Speyeria zerene behrensii*)

Plan Status: Draft

Plan Date: 20-Jan-04

Lead Agency: USFWS

Lead Office: Arcata Fish And Wildlife Office

(707)

822-7201)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	1	1.1.1	Develop a habitat conservation strategy for the Point Arena metapopulation.	Not Started			California Department of Parks and Recreation, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	1	1.1.2	Determine willingness of landowners identified in action 1.1.1 to participate in recovery of the Behren's silverspot butterfly.	Not Started			California Coastal Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	1	1.1.3	Map habitat areas for the Point Arena metapopulation	Not Started			California Department of Parks and Recreation, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	But see Action 1.2.3
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	1	1.1.4	Protect habitat for the Point Arena metapopulation.	Not Started			California Coastal Commission, U.S. Fish and Wildlife Service	Management: Land Use	Internal Technical Assistance	
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	1	1.2.1	Develop a strategy for conservation of potential habitat.	Not Started			Sonoma County Parks, California, U.S. Department of Transportation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	1	1.2.2	Determine willingness of landowners with potential habitat to participate in recovery of the Behren's silverspot butterfly	Ongoing Current	FY 2005	FY 2050	California Coastal Commission, U.S. Fish and Wildlife Service	Acquisition: General, Management: Other	Internal Administrative	Have contacted some landowners with historic habitat, to explore willingness to work with FWS on recovery

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Behren's silverspot butterfly (Speyeria zerene behrensii)	1	1.2.3	Survey and map habitat areas on all ownerships.	Ongoing Current	FY 2005		U.S. Fish and Wildlife Service	Work type not yet selected	Species Expert	Dick Arnold conducted surveys in 2005-2006. Contract made with State Parks for them to conduct the outreach and surveys 2009-2010 with FWS support and input.
Behren's silverspot butterfly (Speyeria zerene behrensii)	1	1.2.4	Protect habitats identified in action 1.2.1	Not Started			California Department of Parks and Recreation, Sonoma County Parks, California, U.S. Fish and Wildlife Service	Work type not yet selected	Internal Administrative	
Behren's silverspot butterfly (Speyeria zerene behrensii)	1	1.3.1	Develop management plans.	Ongoing Current	FY 2008		U.S. Fish and Wildlife Service	Management: General	Contract, Internal Administrative, Internal Technical Assistance	Grazing study initiated in FY08 will inform future management planning by BLM and FWS
Behren's silverspot butterfly (Speyeria zerene behrensii)	1	2.1.1	Clarify the extent and condition of habitat areas necessary to provide for breeding, nectaring, and shelter by the Behren's silverspot butterfly.	Not Started			California Department of Parks and Recreation, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Behren's silverspot butterfly (Speyeria zerene behrensii)	2	2.1.2	Ascertain the distribution and habitat requirements of the early blue violet and nectar source plants.	Not Started			U.S. Fish and Wildlife Service	Management: Habitat Maintenance and Manipulation, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques	Internal Technical Assistance	
Behren's silverspot butterfly (Speyeria zerene behrensii)	2	2.1.3	Identify dispersal patterns (distances, directions, habitat requirements) of the Behren's silverspot butterfly needed to facilitate migration between patches.	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

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Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	2	2.2.1.1	Control exotic grass.	Not Started			California Department of Parks and Recreation, Sonoma County Parks, California, U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	2	2.2.1.2	Increase or maintain early blue violet density	Not Started			California Department of Parks and Recreation, Sonoma County Parks, California, U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	2	2.2.1.3	Establish or maintain nectar plant abundance and density.	Not Started			California Department of Parks and Recreation, Sonoma County Parks, California, U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	2	2.2.1.4	Control trees.	Ongoing Current	FY 2005	FY 2013	California Department of Parks and Recreation, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Management: Habitat Maintenance and Manipulation	Internal Administrative	Funded BLM to remove invasive trees from habitat on BLM's Point Arena/Stornetta Ranch. State Parks has also done some. May require additional years.
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	2	2.2.1.5	Control brush.	Not Started			California Department of Parks and Recreation, Sonoma County Parks, California, U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	2	2.2.1.6	Monitor / control exotic forbs.	Not Started			California Department of Parks and Recreation, Sonoma County Parks, California, U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	

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Behren's silverspot butterfly (Speyeria zerene behrensii)	2	2.2.1.7	Monitor effectiveness of management actions	Not Started	FY 2008	FY 2010	California Department of Parks and Recreation, Sonoma County Parks, California, U.S. Bureau of Land Management	Management: Habitat Maintenance and Manipulation, Management: Planning, Research: Management Techniques	Contract	But see Action 1.3.1
Behren's silverspot butterfly (Speyeria zerene behrensii)	2	2.2.2	Determine effects of selected management methods on nontarget species.	Not Started			To be determined	Work type not yet selected	Labor type not yet selected	
Behren's silverspot butterfly (Speyeria zerene behrensii)	2	2.3.1	Determine methods for the captive culture and rearing of the Behren's silverspot butterfly.	Not Started			To be determined	Work type not yet selected	Labor type not yet selected	Need for captive propagation to be assessed; partners not yet identified
Behren's silverspot butterfly (Speyeria zerene behrensii)	2	2.3.2	Determine methods for the release of reared Behren's silverspot butterfly caterpillars into restored or unoccupied habitat	Not Started			To be determined	Work type not yet selected	Labor type not yet selected	Need for captive propagation to be assessed; partners not yet identified
Behren's silverspot butterfly (Speyeria zerene behrensii)	1	2.4.1	Determine the potential sources of mortality at the Point Arena metapopulation	Not Started			California Department of Parks and Recreation, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Behren's silverspot butterfly (Speyeria zerene behrensii)	2	2.4.2	Determine likely sources of mortality at historical and potential Behren's silverspot butterfly sites.	Not Started			To be determined	Work type not yet selected	Labor type not yet selected	
Behren's silverspot butterfly (Speyeria zerene behrensii)	1	3.1	Determine appropriate parameters to determine population trends.	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Behren's silverspot butterfly (Speyeria zerene behrensii)	1	3.2	Determine appropriate parameters to determine habitat trends	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

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Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	1	3.3	Develop monitoring guidelines and techniques for tracking population status	Ongoing Current	FY 2006	FY 2050	U.S. Fish and Wildlife Service	Research: Population Surveys	Internal Field Assistance	Used existing Oregon Silverspot Butterfly survey methods. See Action 3.6
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	1	3.4	Develop monitoring guidelines and techniques for tracking habitat status and habitat management activities.	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	1	3.5	Develop a monitoring plan for the Point Arena metapopulation, and populations subsequently identified.	Ongoing Current	FY 2006	FY 2050	To be determined	Research: Population Surveys	Internal Technical Assistance	Used existing Oregon Silverspot Butterfly survey methods. See Action 3.6
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	1	3.6	Implement a monitoring plan for the Point Arena metapopulation and other documented sites.	Ongoing Current	FY 2006	FY 2050	California Department of Parks and Recreation, U.S. Bureau of Land Management	Research: Population Surveys	Volunteer	CDPR and BLM are monitoring fixed transects since 2006.
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	2	3.7	Implement augmentation / reintroduction, if appropriate, based upon population trends, habitat availability and life history factors.	Not Started			To be determined	Work type not yet selected	Labor type not yet selected	Need for captive propagation to be assessed; partners not yet identified
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	3	4	Reduce take.	Ongoing Current	FY 2005	FY 2050	U.S. Fish and Wildlife Service	Management: Land Use	Internal Technical Assistance	AFWO implemented a no-take process with Mendocino County. SFWO has not done the same in Sonoma County.
Behren's silverspot butterfly (<i>Speyeria zerene behrensii</i>)	3	5.1	Develop and implement public information and outreach programs	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	